How to Use the AF Show Browser

Introduction

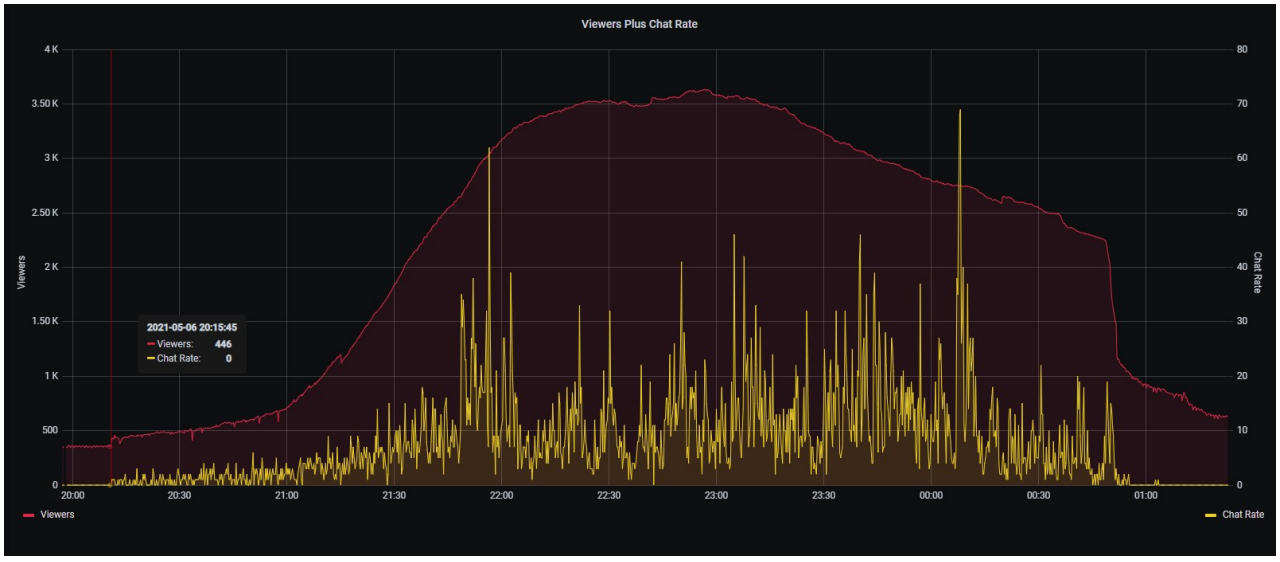
When analyzing recordings the show, it can often times be hard to adjust timestamps in the recording to timestamps in the grafana. For example, if someone found a spike in chat engagement at a certain time, it would be hard to find the cause of that in the show recording. This is because the show recordings start at different times and have varying lengths. This tool helps people finding the times with the highest chat rate, and has a search feature that allows someone to find a time in the recording from a specific timestamp.

How it works

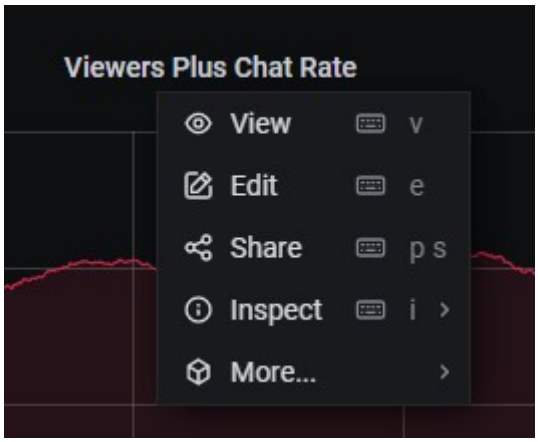
We can find out when the show ends because when the stream closes, it closes the chatroom and the chat rate goes down to zero. In a time series database, we can find the last time the chat rate is positive and set that as the end time. We then use the length of the show, the specific timestamps, and end time to calculate where in the recording any specific timestamp takes place. Note that this is not exact, so when someone is using the program they should look a few seconds before and after a computed time.

How to collect the data

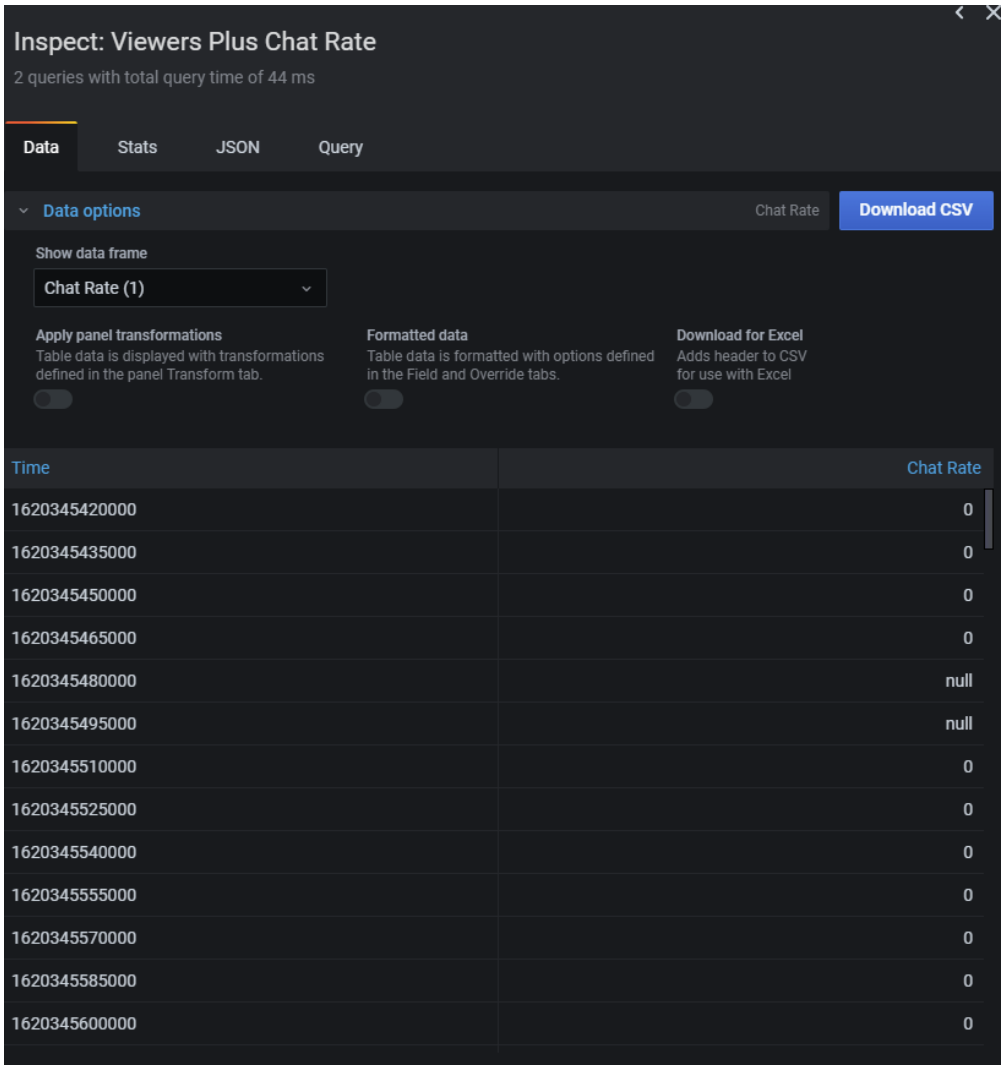
Firstly we need to download the data. In grafana, we can select a certain time we want to analyze by dragging over the chat rate or combined graph. Make sure to have a good amount of time (more than 10 minutes) before and after the show where the chat rate drops down to zero. The resulting graph should look like this.



Then click on the title of the graph and you should see a drop down like this.



Next hover over the “inspect” icon and select “data”. Which should take you to a table like the one below. Under data options, make sure the data is displaying chat rate and not viewers. Also make sure the data is **not** formatted and is displayed in unix time. Now download the csv.


Inspect: Viewers Plus Chat Rate
2 queries with total query time of 44 ms
Data
Stats
JSON
Query
Data options
Chat Rate
Download CSV
Show data frame
Chat Rate (1)
Apply panel transformations
Table data is displayed with transformations defined in the panel Transform tab.
Formatted data
Table data is formatted with options defined in the Field and Override tabs.
Download for Excel
Adds header to CSV for use with Excel

Time	Chat Rate
1620345420000	0
1620345435000	0
1620345450000	0
1620345465000	0
1620345480000	null
1620345495000	null
1620345510000	0
1620345525000	0
1620345540000	0
1620345555000	0
1620345570000	0
1620345585000	0
1620345600000	0

Using the Program

Using the program is quite simple. When it is started up, simply click browse select the csv you just downloaded. Next you have to enter in the length of the recording you want to go through. Finally enter in how many data points you want to analyze. There is an optional search feature that allows you to find where in the video you can see a certain timestamp. A popup window should appear that has the data you want.